BY 9201

FIRST TERMINAL EVALUATION 2017

BIOLOGY

STANDARD : IX

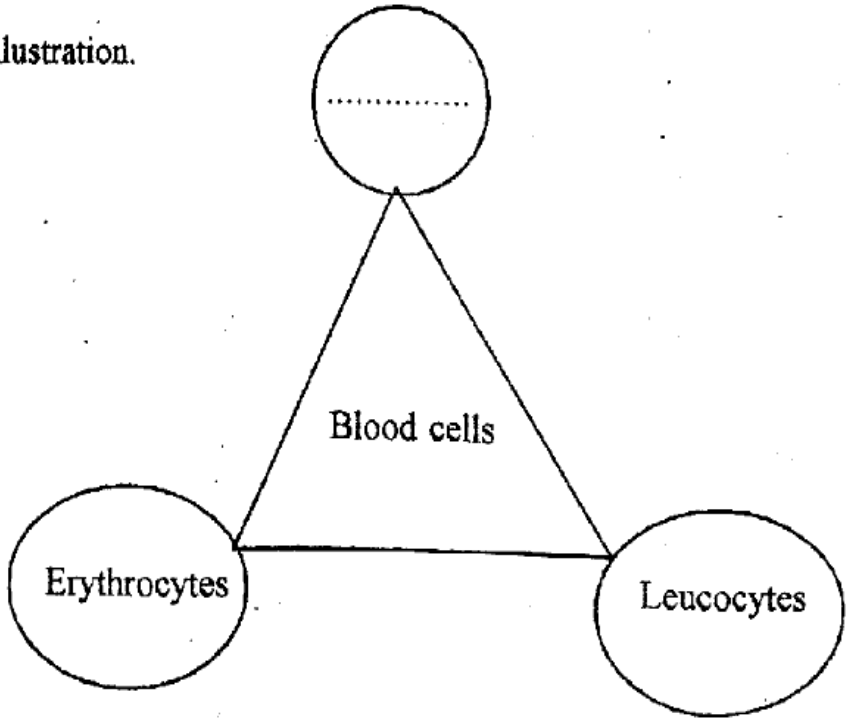
Time : 1½ hrs.
Total Score : 40

Instructions

- First 15 minutes is cool off time. Read and select the questions carefully during this time.
- Read the instructions carefully before writing the answers.
- While writing the answers, score and time should be considered.

Answer any 4 from questions 1 to 5. Each question carries 1 score.

1. Pick the odd one and write the common feature of others.
   (a) Chlorophyll-b (b) Xanthophyll (c) Chlorophyll-a (d) Carotene
2. Complete the word pair suitably.
   Protein : Trypsin
   Fat : .....
3. Make corrections, if any in the underlined portion of the given statement.
   Flow of blood from the left atrium to the left ventricle is controlled by Aortic valve.
4. Choose the correct statement from the following :-
   (a) Melvin Calvin discovered the process of glucose production in photosynthesis.
   (b) Joseph Priestly proved that the source of oxygen evolved during photosynthesis is water.
   (c) Light energy is converted to chemical energy in Calvin cycle .
5. Complete the given illustration.



Answer any 4 from questions 6 to 10. Each question carries 2 score.

6. Rearrange the given flow chart appropriately

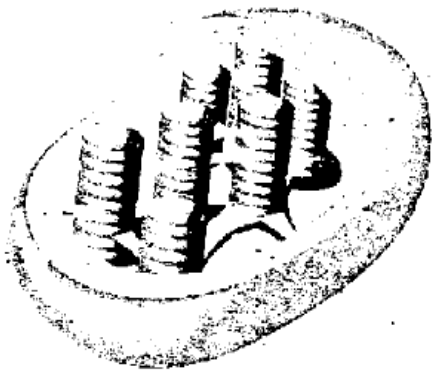
Glucose ⟶ photosynthesis ⟶ sucrose ⟶ starch ⟶ protein .

7. Rearrange the given table appropriately

Process	**Substances Transported**
Osmosis	Salts
Facilitated diffusion	Water
Active transport	Glycerol
Diffusion	Protein
	Fructose

8. What is meant by systolic and diastolic pressure?

9. Observe the given diagram and answer the following questions.



(a) Identify this cell organelle.
(b) What is the peculiarity of the membrane of this organelle?
(c) Which part contains the pigments?
(d) In which part of the leaves does this cell organelle exist in more number?

10. The materials for conducting a practical to observe the action of salivary amylase are given below. Write the procedure of this experiment.

Test tubes, Rice groel, Saliva, Iodine solution, Benedicts reagent, Spirit lamp.

Answer any 4 from questions 11 to 15. Each question carries 3 score.

11. 'Blood should enter the cells to transfer nutrients into the cell.'
Do you agree with this statement ? why ?

12. Write three sub topics that you will include for a seminar based on the topic 'Global warming and the survival of mankind.'

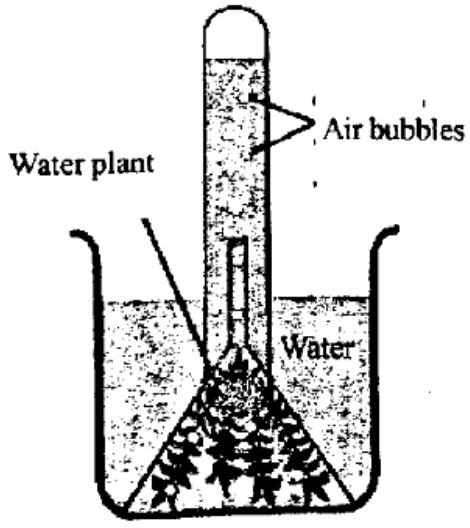
13. How do the following help in the stomach functions?
- Peristalsis
- Special kind of circular muscles
- Glands in the stomach wall .

14. As an ecosystem, ocean has great significance in the existence of living organisms on earth.
(a) Do you agree with this statement? Why?
(b) Who are the main producers in the ocean ecosystem ?

15. Give three suggestions for maintaning a healthy digestive system .

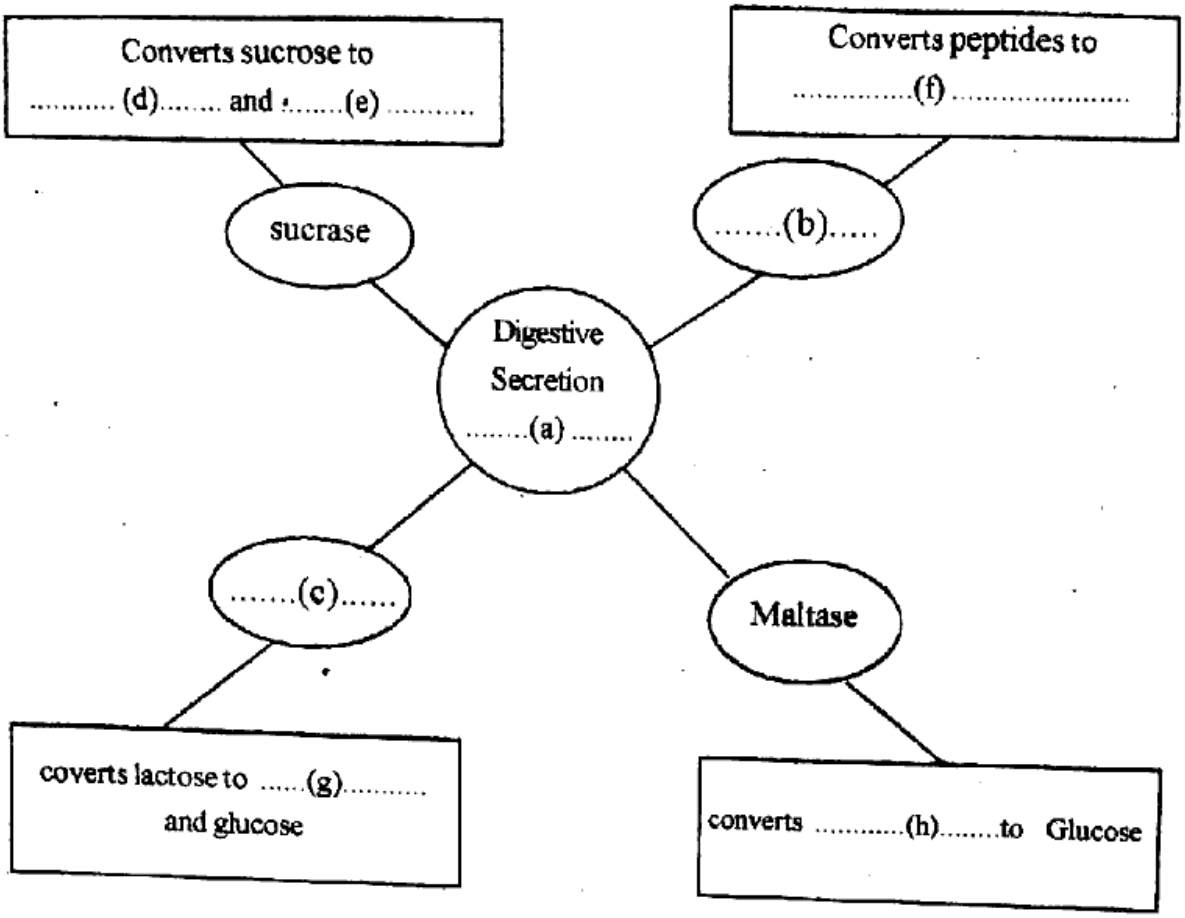
Answer any 4 from questions 16 to 20. Each question carries 4 score.

16. Observe the given experimental set up and answer the following questions.



(a) What is the aim of this experiment ?
(b) Write down the differences in the formation of air bubbles when the experimental set up is kept in direct sunlight and indirect sunlight?
(c) Which is the biomolecule synthesised here ?

17. Complete the following illustration appropriately .



18. Name the following parts related to heart.

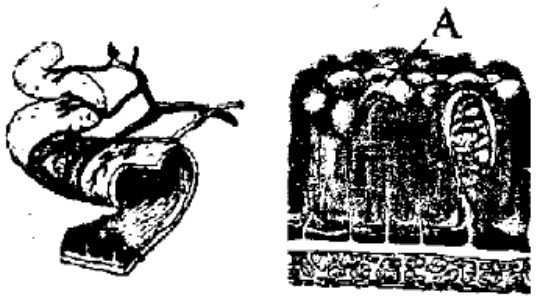
(a) The blood vessel which carries blood to the lungs

(b) The blood vessel which carries blood from different parts of body.

(c) Chamber from which blood is pumped to aorta.

(d) The heart chamber to which blood from lungs reach .

19. Observe the given figure and answer the following questions.



(a) Identfy the part labelled A ?

(b) How does the structure of this part help in absorption ?

(c) Which are the nutrients absorbed to blood capillaries ?

20. Blood transports nutrients to different parts of the body and maintains immunity.

(a) Write another function of blood?

(b) Which part of the blood carries nutrients? What are the maijor components present in it?

(c) Name the factors in blood responsible or maintenance of immunity?